



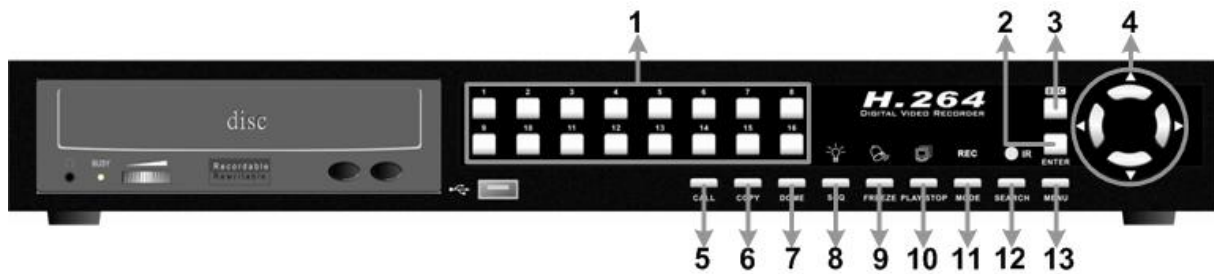
Standard H.264 DVR Setup Guide

Package Content

Inspect the packaging carton. Make sure the **Standard H.264 DVR** is properly delivered. Remove all items from the box and make sure the box contains the following items.

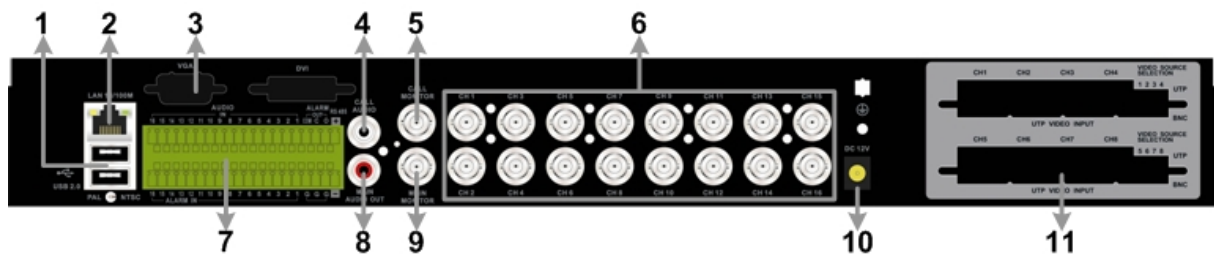


Function Keys on the Front Panel



1	Channels (4 / 8 / 16)	6	COPY	11	MODE
2	ENTER	7	DOME	12	SEARCH
3	ESC	8	SEQ (Sequence)	13	MENU
4	Direction Keys	9	FREEZE		
5	CALL	10	PLAY/STOP		

Rear Panel Connectors



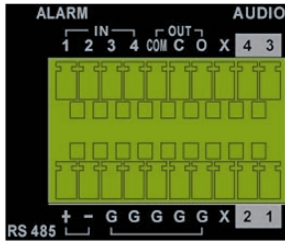
1	USB Connectors	5	Call Monitor	9	Main Monitor - BNC
2	LAN 10/100M (RJ-45)	6	Video Input (BNC)	10	Power Jack
3	Main Monitor - VGA (Optional)	7	Alarm In, RS-485, & Audio In		
4	Call Monitor Audio Out	8	Main Monitor Audio Out		

Description of Connectors

1	USB Connector	There are three USB 2.0 ports (2 at rear + 1 at front) to allow users to connect external USB devices to the unit, such as a USB ThumbDrive® or a USB mouse.
2	LAN 10/100M (RJ-45)	The DVR is capable of networking. Once the unit is connected to the LAN network, users can remotely access the unit through the remote software on a PC.
3	Main Monitor-VGA(optional)	The DVR can connect to a monitor via an optional VGA connector.
4	Call Monitor Audio Out	Call Monitor Audio Out RCA connectors are provided for the DVR to connect audio output devices (e.g. amplified speakers).
5	Call Monitor (BNC)	The call monitor is used to display full screen video of all installed cameras in sequence. The BNC Call Monitor connector allows users to connect the DVR to a call monitor. To access call monitor control, please use the IR remote controller.
6	Video Input BNC	A group of BNC connectors is provided for video input streams from installed cameras. The number of connectors is equal to the number of channels.
7	Alarm I/O, RS-485, & Audio In	Terminal block connectors are provided to offer users the flexibility to connect the DVR to Alarm I/O, RS-485, and Audio In devices. Refer to the next page for pin definition of each model.
8	Main Monitor Audio Out	Main Monitor Audio Out RCA connectors are provided for the DVR to connect audio output devices (e.g. amplified speakers).
9	Main Monitor-BNC	The DVR can connect to a monitor via a BNC connector.
10	Power Jack	The DVR has a free voltage DC power connection jack. Please connect the power supply adapter shipped with the unit.

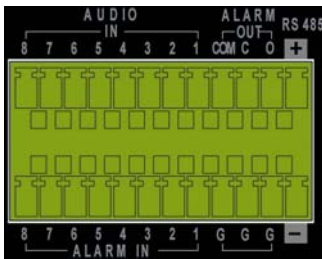
Pin Definition of Alarm I/O, RS-485, & Audio In

4ch-Model:



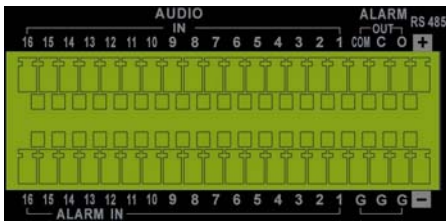
Pin	Definition	Pin	Definition	Pin	Definition
1	Alarm In 1	8	X	15	Ground
2	Alarm In 2	9	Audio In 4	16	Ground
3	Alarm In 3	10	Audio In 3	17	Ground
4	Alarm In 4	11	RS485 D+	18	X
5	Alarm Out COM	12	RS485 D-	19	Audio In 2
6	Alarm Out C	13	Ground	20	Audio In 1
7	Alarm Out O	14	Ground		

8ch-Model:



Pin	Definition	Pin	Definition	Pin	Definition
1	Audio In 8	9	Alarm Out COM	17	Alarm In 4
2	Audio In 7	10	Alarm Out C	18	Alarm In 3
3	Audio In 6	11	Alarm Out O	19	Alarm In 2
4	Audio In 5	12	RS485 D+	20	Alarm In 1
5	Audio In 4	13	Alarm In 8	21	Ground
6	Audio In 3	14	Alarm In 7	22	Ground
7	Audio In 2	15	Alarm In 6	23	Ground
8	Audio In 1	16	Alarm In 5	24	RS485 D-

16ch-Model:



Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition
1	Audio In 16	11	Audio In 6	21	Alarm In 16	31	Alarm In 6
2	Audio In 15	12	Audio In 5	22	Alarm In 15	32	Alarm In 5
3	Audio In 14	13	Audio In 4	23	Alarm In 14	33	Alarm In 4
4	Audio In 13	14	Audio In 3	24	Alarm In 13	34	Alarm In 3
5	Audio In 12	15	Audio In 2	25	Alarm In 12	35	Alarm In 2
6	Audio In 11	16	Audio In 1	26	Alarm In 11	36	Alarm In 1
7	Audio In 10	17	Alarm Out COM	27	Alarm In 10	37	Ground
8	Audio In 9	18	Alarm Out C	28	Alarm In 9	38	Ground
9	Audio In 8	19	Alarm Out O	29	Alarm In 8	39	Ground
10	Audio In 7	20	RS485 D+	30	Alarm In 7	40	RS485 D-

Basic Setup

Follow the description to set up the configuration of date/time, recording, and viewing mode of the DVR. All configurations can be set via either the DVR or **DVRRemote**, the remote software.

Enter OSD Setup menu:

- Press **MENU** to enter the OSD main menu.
- Enter password using Channel keys. The default passwords are as below.

Administrator Password	User Password
1 2 3 4	4 3 2 1

- It is strongly suggested to change the passwords to prevent unauthorized access.

Date / Time Setting:

Follow the steps below to enter the Date/Time.

- Select **<Date/Time>** in System Setup menu to enter the Date/Time menu.
- Select the date and time using **LEFT/RIGHT** keys; then adjust the value using **UP/DOWN** keys.
- The new date and time settings take effect after the changes are confirmed.

To Define Recording Settings:

- Select **<Record Setup>** from the OSD main menu.
- Select **<ezRecord>** as **Preset Configuration** option, and select wanted number of recording day in **ezRecord Setup**; other setting will be automatic arranged by the unit.
- Consider application needs and select a **Preset Configuration** setting from **<Best Quality>**, **<Standard>**, and **<Extended Record>**. Detailed information refers to **Standard H.264 DVR User's Manual, Preset Record Configuration**.
- Adjust the Recording schedule, Pre-alarm, Circular and Audio parameters.
- When the settings are complete, press **ENTER** to confirm and save the settings; or **ESC** to abort.

To Select Viewing Mode:

- Press **MODE** button repeatedly to select the desired display mode. The available viewing modes are full-screen, 2x2, 3x3, and 4x4 split-window.

Network Setup

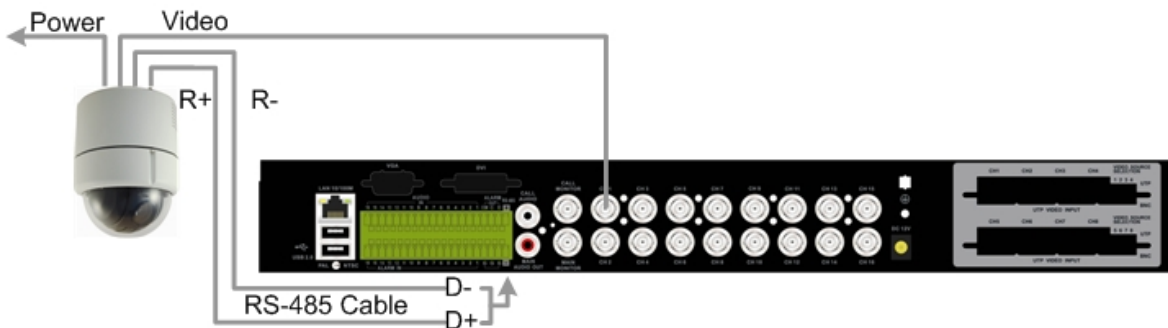
Configure the LAN setup for the DVR to properly function with Ethernet connection.

- From OSD main menu, select **<System Setup>** → **<Network Setup>** → **<LAN Setup>**.
- For DHCP user, set the DHCP to **<ON>**. The IP address, Netmask, Gateway and DNS settings are retrieved from network servers. DHCP is dynamic that the settings change from time to time.
- For Non-DHCP user, set the DHCP to **<OFF>**. Enter an IP address, Netmask, Gateway, and DNS settings. Please obtain the information from the network service provider.
- To change the IP address, Netmask, Gateway and DNS value, press **UP/DOWN** keys to move the cursor to the item. Use **LEFT/RIGHT** keys to access each section of the value and press **ENTER**, then change the value using **UP/DOWN** keys.
- When the settings are complete, press **ENTER** to confirm and save the settings; or **ESC** to abort.

Dome Camera Connection

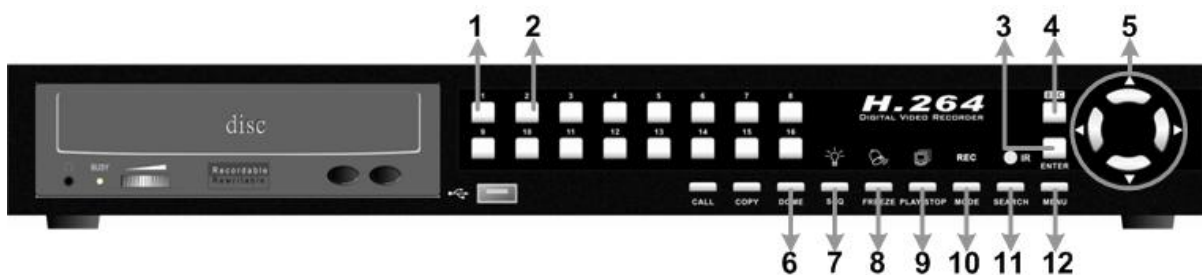
Dome Camera Connection & Settings:

- See section Pin Definition of Alarm I/O, RS-485, & Audio In for RS-485 port pin definition.
- Refer to the following figure. Connect the R+, R- terminals on the dome camera to the D+, D- terminals on the RS-485 port by RS-485 cable respectively.



- To set up dome camera's protocol and ID, press **MENU** to access the OSD main menu, and select **<Camera Setup>**. The available protocol options include **<DynaColor>**, **<Pelco D>**, **<Pelco P>**, **<AD422>**, **<Fastrax 2>**, **<JVC>**, **<Panasonic_C>**, **<Panasonic_N>** and **<None>** (default). Note that ID number must match the ID address defined by the dome camera.
- To configure the RS-485 parameters, select **<System Setup>** from OSD main menu, and then select **<RS485 Setup>**. The default **Standard H.264 DVR** RS-485 settings are 9600 Baud, 8 Data Bits, 1 Stop Bit and No Parity.

Dome Camera Control Keys:



1	Set / Go Preset	5	Pan / Tilt	9	Iris Close
2	Toggle Hint Screen	6	Enter Dome Camera Control Mode	10	Iris Open
3	Enter / Auto	7	Focus Near	11	Zoom Out
4	ESC	8	Focus Far	12	Zoom In

Basic Playback Operation

Searching Recorded Video by Time:

- Press **SEARCH** button to enter the Search menu.
- Move the cursor to “From Time” and press **ENTER** will start playing recorded video from the specified “From Time”.
- Move the cursor to “End Time” and press **ENTER** will start playing recorded video from the specified “End Time”.
- Use Direction keys to move the cursor for setting the Start Time; adjusting the date and time values by **UP/DOWN** keys. Press **ENTER** to confirm or **ESC** to abort.
- Move the cursor to **<Begin Playback>** and press **ENTER** to start playing back the selected video. Either press **PLAY/STOP** again or **ESC** to return to live video.



NOTE: If there is no available recorded video that matches the specified time and date, the unit starts to playback from the next available video.

Searching Recorded Video by Event:

- Press **SEARCH** button to enter the Search menu.
- To search event video that was recorded on a specific camera, use **LEFT/RIGHT** keys to move the cursor and press **ENTER** to select or de-select a channel.
- Move the cursor to **<Event List>** and press **ENTER** to list the event video of the selected channels.
- The list displays each event by date, time, triggered camera and alarm type. The latest recorded event video will be listed on the top. To exit the event list, press **ESC**.
- Use **UP/DOWN** keys to scroll through the Event List. Press **ENTER** to play back the selected event record.



NOTE: The event list displays only the first 1024 events; as some events are deleted, others are displayed.

Playback Controls:

Button	Description
LEFT	The button is for rewinding the recorded video while playing back. Press the button repeatedly to increase the speed of reverse playback by 1x, 2x, 4x, 8x, 16x, or 32x.
RIGHT	The button is used to play the recorded video fast forward. Press the button repeatedly to increase the speed of forward playback by 1x, 2x, 4x, 8x, 16x, or 32x.
FREEZE	Press FREEZE to pause the playback video. When the recorded video is paused, press LEFT / RIGHT to resume playback video single step reverse / forward respectively. Press FREEZE again to continue playing back video.
Play/Stop	Press to start the playback or to stop playing back video and return to live mode.

Using Remote Software

Setup Requirements:

- Make sure the PC is connected to the Internet.
- Obtain IP address of the **Standard H.264 DVR**. To check the DVR's IP address, press **MENU** key on the unit and select **<System Setup>** → **<Network Setup>** → **<LAN Setup>** → **<IP>** to check the IP.

Changing Internet Setting:

- Start the IE; select **<Tools>** from the main menu of the browser, then **<Internet Options>** and then click the **<Security>** tab.
- Select **<Trusted sites>** and click **<Sites>** to specify its security setting.
- Uncheck "Require server verification (https:) for all sites in this zone". Type the IP address of the unit in field and click **<Add>** to add this website to the zone.
- In the Security Level area, click **<Custom Level>**. Under **<ActiveX controls and plug-ins>**, set all items to **<Enable>** or **<Prompt>**.
- Click **<OK>** to accept the settings and close the **<Security Settings>** screen.

Using the Remote Software:

- Start the IE and enter the IP address of the **Standard H.264 DVR** in the address bar.
- The ActiveX controls and plug-ins dialog will show twice for confirmation; click **<YES>** to accept ActiveX plug-ins. The **DVRRemote** plug-ins will be downloaded and installed on the PC automatically when the connection is successfully made.



NOTE: Do not enter any leading "0" characters in the address, for example, "192.068.080.006" should be entered "192.68.80.6".



NOTE: If the default trigger port 80 is changed into another one, port 81 for example, then the IP address should be entered as "192.68.80.6:81".

- Version verification starts automatically to verify whether DVRRemote was installed. This process may take up to 30 seconds.
- When the software is completely downloaded and installed, the Login Screen is displayed.
- Enter the username and password. The default usernames and passwords are admin: 1234, user: 4321.

The following picture shows the display window of the DVRRemote:



Refer to the table below for brief description of functional items:

Item	Description	Item	Description
1	Select Picture Size	9	HDD Status
2	Download DVRPlayer	10	Playback Control
3	View Live Camera	11	Instant Recording
4	Playback Video	12	Audio On/Off
5	Setup Menu	13	Select Camera
6	Search Event List	14	Select Bandwidth Speed
7	Capture Snapshot	15	Display Mode
8	4:3 Viewing Aspect	16	Dome Camera Control Panel

For more information on DVRRemote, see User's Manual.

DVRRemote Playback

To Playback Remote Video:

- Click **<Play>** on the main window toolbar, and then **<Remote Playback>** tab.
- The **<From>** and **<To>** on top of the screen display the date and time from which recorded video is available for playback.
- Choose **<Playback>** in **<Select>** field for playback recorded video.
- Select the date and time of the segment to play back from the **<Start>** field. The date and time can be changed either by typing desired numbers directly or using the arrow buttons.
- Click **<OK>** to start the playback, or click **<Close>** to abort.

To Playback Local *.drv File:

- Click **<Play>** on the main window toolbar, and then **<Local Playback>** tab.
- Click **<Open>** and the file selection screen is displayed. Select the *.drv video file to playback and click **<OK>**.
- Click **<OK>** to start the playback, or click **<Cancel>** to abort.
- View the video playback using the Playback controls.
- To end the playback, click **<Live>** to return to live video.

To Playback Local *.avi Files:

- Start the windows media player or other media player from **<Start>** menu (or any other possible access).
- Select **<File>** and then **<Open>**.
- Select the wanted *.avi file, and click **<Open>**.



NOTE: The *.avi files for each channel are stored separately. Therefore the video can be played back in single channel, full screen mode only.

To Playback Event Video

- Click **SEARCH** on the main window toolbar. The Event List appears.
- Scroll through the Event List and highlight the interested events.
- Double-click on the desired event to view the event video.

Playback Controls:

